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Datasheet for ABIN7317283

Intestinal Alkaline Phosphatase Protein (ALPI) (His tag)

Overview

Quantity:	50 µg
Target:	Intestinal Alkaline Phosphatase (ALPI)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Intestinal Alkaline Phosphatase protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Alkaline Phosphatase/ALPI Protein (His Tag)(Active)
Sequence:	Met 1-Asp 503
Characteristics:	A DNA sequence encoding the mature form of human ALPI (P09923) (Met 1-Asp 503), without the pro peptide, was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is > 1,000 pmoles/min/µg.

Target Details

Target:	Intestinal Alkaline Phosphatase (ALPI)
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Target Details

Alternative Name: Alkaline Phosphatase/ALPI ([ALPI Products](#))

Background: Background: ALPI encodes for intestinal phosphatase alkaline, a brush border metalloenzyme that hydrolyses phosphate from the lipid A moiety of lipopolysaccharides and thereby drastically reduces Toll-like receptor 4 agonist activity. ALPI mutations impaired either stability or catalytic activity of ALPI and rendered it unable to detoxify lipopolysaccharide-dependent signalling. ALPI mutations should be included in screening for monogenic causes of inflammatory bowel diseases and lay the groundwork for ALPI-based treatments in intestinal inflammatory disorders.

Synonym: IAP

Molecular Weight: 54 kDa

UniProt: [P09923](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.